

Fig. 1

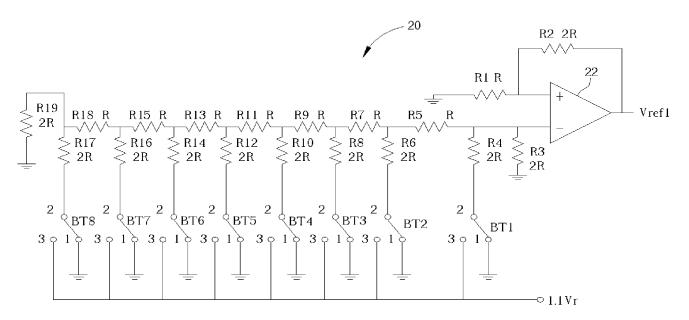


Fig. 2

Button pressed	Associated voltage
BT1	1.1Vr
BT2	1/2 x 1.1Vr
BT3	1/4 x 1.1Vr
BT4	1/8 x 1.1Vr
ВТ5	1/16 x 1.1Vr
ВТ6	1/32 x 1.1 Vr
BT7	1/64 x 1.1Vr
BT8	1/128 x 1.1Vr

Fig. 3

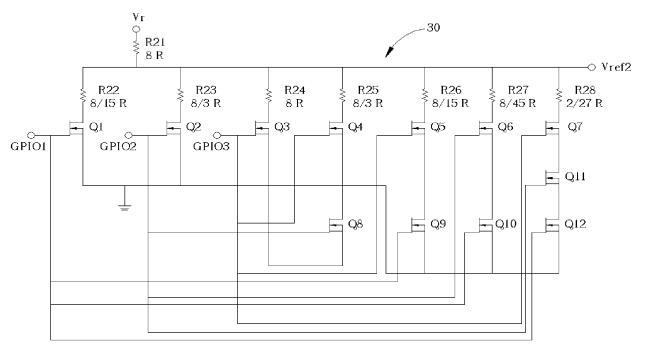


Fig. 4

Button tested	GPI01	GPIO2	GPIO3	GPI O0	Vref2 value
BT1	0	0	0	1	Vr
BT2	0	0	1	1	1/2 x Vr
ВТ3	0	1	0	1	1/4 × Vr
BT4	0	1	1	1	1/8 x Vr
BT5	1	0	0	1	1/16 x Vr
ВТ6	1	0	1	1	1/32 x Vr
ВТ7	1	1	0	1	1/64 x Vr
BT8	1	1	1	1	1/128 x Vr

Fig. 5

Row Num	BT1	BT2	втз	BT4	BT5	ВТ6	ВТ7	ВТ8	Detected button
1	1	0	0	0	0	0	0	0	BT1
2	0	1	0	0	0	0	0	0	BT2
3	0	0	1	0	0	0	0	0	ВТ3
4	0	0	0	1	0	0	0	0	BT4
5	0	0	0	0	1	0	0	0	BT5
6	0	0	0	0	0	1	0	0	BT6
7	0	0	0	0	0	0	1	0	BT7
8	0	0	0	0	0	0	0	1	BT8
9	1	0	0	0	0	0	0	1	BT1
10	1	0	0	0	0	0	1	1	BTI
11	:	:	••	:	:	:	:	:	:
12	1	1	1	0	0	0	0	0	BT1
13	1	1	0	1	0	0	0	0	BT1
14	1	1	0	0	1	0	0	0	BT1
15	1	1	0	0	0	1	0	0	BTI
16	1	1	0	0	0	0	1	0	BT1
17	1	1	0	0	0	0	0	1	BT1
18	:	:	:	:	:	:	:	:	:
19	1	0	0	0	1	0	0	0	BT1
20	0	1	0	1	0	0	1	0	BT2

Fig. 6